PETROLOGY

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12. Description of rock specimens from the Hobart area.

The classification and discriptions of Permiss Spiri-

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The following are brief descriptions of hitherto undescribed rocks collected in the Hobart area.

64-24. Risdon Brook dam site

Basalt of intergranular and intersertal texture but with some larger pyroxenes in ophitic relationship with feldspars. Brownish glass. Average length of laths 0.2 mm.

64-196. Risdon Brook dam site, D.D.H. 4, 5.9 m

Mudstone with fine-grained matrix containing angular fragments of quartz and cloudy feldspar up to 0.5 mm across. The matrix is partly white and opaque and partly colourless and transparent. There are irregular patches of pyrite and areas of limonite staining, irregular wisps and grains of carbonaceous material and occasional grains of graphite schist.

64-197A. D.D.H. 4, 9.1 m

Fine-grained mudstone without regular texture. Matrix partly white opaque (clayey) and partly colourless transparent (sericitic and quartzitic) occasional irregular grains of quartz and cloudy feldspar up to 0.5 mm across. Some carbonaceous material.

64-197B. D.D.H. 4, 9.1 m

Shale with strips of carbonaceous material.

64-198A, B. Risdon Brook dam site, D.D.H. 4, 11.5 m, corn coheld . H. Achtara 64-199A. D.D.H. 4, 12.0 m

Mudstone with particles of quartz, feldspar, sericite, carbonaceous material and rock fragments up to 0.2 mm across in a fine-grained opaque white matrix. Depositional laminae, sometimes disturbed and contorted, are prominent.

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oryginis up to 1 mm long and groups of smaller crystals occur. Gifviso is

64-201.m D.D.H. 4, 14.9 m is encelled this adminds being collists some attiw access.

Mudstone with bands of quartz and carbonates, and pyrite.

64-203A, B. D.D.H. 4, 19.4 m

Fine-grained arkose consisting of angular grains of feldspar, averaging 0.1 mm across, quartz, sericite, organic material and rock fragments.

Pyrite, magnetite and carbonates are fairly common.

64-202A, B. D.D.H. 4, 16.2 m

Limestone consisting of very fine-grained carbonate with a minor amount of quartz in particles up to 0.2 mm across. Veinlets and small patches of pyrite.

64-204A, B. D.D.H. 4, 30.5 m

Very fine-grained mudstone with fragments of quartz, feldspar and sericite up to about 0.05 mm long in a matrix of material too fine-grained to give a distinct birefringence.

intersections granules of gale brownish augite and magnetice, Olivine has

64-205. D.D.H. 2, 8.4 m of offsel ethrosydal to onlineaus eludest players

Limestone consisting of a mosaic of minute interlocking crystals with a little quartz.

64-206. D.D.H. 2, 4.3 m

Limestone consisting of minute grains of carbonate and crowded with outlines of organic remains.

64-241A, B. D.D.H. 8, 13.0 m, a date of distribution of decided and decided an

Mudstone consisting of angular grains of quartz, a few lithic fragments and occasional feldspars in an opaque white matrix of clay material.

64-324, 64-325. Nazmane School

64-243A, B. D.D.H. 8, 14.5 m and aldinomia drive clean years to desired an early

Siliceous mudstone containing angular fragments of quartz, quartzite and other lithic constituents and occasional feldspars up to 5 mm across in a matrix of opaque white material of clay grade. Pyrite is present.

64-244. D.D.H. 8, 15.2 m salar readel edt . tapablet to selfrogram redein yl

Fine-grained quartz sandstone with occasional fragments of quartz, lithic constituents and feldspar up to 5 mm across. A little opaque white interstitial material of clay grade, and areas of pyrite.

64-245A, B. Risdon Brook dam site, D.D.H. 8, 16.0 m

material and rook fragments up to 0.2 on across in a fine-quadred opaque

66-1986, E.D.B. 4, 12.0 n

64-246A, B. D.D.H. 8, 22.6 m

Mudstone or quartz wacke consisting of grains of quartz about 0.02 mm across with minor lithic constituents and feldspar in an opaque white matrix of clay grade. Occasional grains range up to 0.25 mm across and there are many small voids. Specimen B is similar to A but has very few voids.

64-294. Old Beach

Fine-grained olivine basalt with intersertal texture consisting of occasional patches of dark glass in a felted mass of sub-radiating feldspar laths averaging 0.15 mm long. Euhedral crystals of pale brownish augite in crystals up to 1 mm long and groups of smaller crystals occur. Olivine is less common and the crystals are completely altered to iddingsite or serpentine.

Fine-grained sandstone composed of sub-rounded to angular grains of quartz and minor feldspars and lithic constituents with a dark limonitic cement.

64-323. Richardsons Farm, near Pass Road

Iddingsitised olivine basalt. The rock has an intergranular and subtrachytic texture consisting of labradorite laths about 0.2 mm long with interstitial granules of pale brownish augite and magnetite. Olivine has been altered to yellowish iddingsite, which is common in irregular patches and pseudomorphs, outlined with magnetite crystals, up to 0.5 mm long.

64-332. Richardsons Farm

Fine-grained olivine basalt with trachytic and intergranular texture consisting of feldspar laths averaging 0.1 mm long, showing orientation, with granules of pyroxene and phenocrysts of olivine about 0.25 mm long, the rock being thickly disseminated with crystals and aggregates of magnetite.

64-374, 64-375. Warrane School

Medium-grained sandstone consisting of sub-rounded quartz grains averaging 0.5 mm with minor lithic constituents and feldspar. Some opaque white material of clay grade with limonitic stains, but the intergranular cement is silica.

64-376. Risdon Vale or strangelist benefit had been emperately and children bearing bear

Medium, even-grained sandstone like Specimen 374, but contains a slightly higher proportion of feldspar. The intergranular cement is in part sericitic.

64-410A, B, C. Risdon Brook

Carbonaceous mudstone consisting mainly of opaque material of clay grade stained black. Disseminated crystals of quartz up to about 0.1 mm across.

65-31. Risdon Vale

Mudstone, pale coloured, fine-grained rock, stained by limonite. Contains occasional detrital grains of quartz, feldspar, zircon, and muscovite in a matrix of fine-grained sericite or semi-opaque clay material.

65-154A. Lindisfarne

Weathered basalt showing intersertal texture, consisting of a network of feldspar laths with patches of glass and crystals of pyroxene. There are doubtful indications of olivine crystals completely altered to serpentinous material.

65-154B. Lindisfarne was set most mesudage a God seps desky materials to

This specimen was probably similar to Specimen 65-154A but weathering has progressed so as to almost obliterate the feldspars and other minerals, except magnetite, largely altered to limonite, which is disseminated through the rock.

65-23. Lindisfarne

Medium- to fine-grained sandstone with sub-angular to sub-rounded grains of quartz, and lithic material stained brown with limonite.

66-244A, B. Flagstaff Gully

Siltstone, mainly with a grain size of between 0.1 mm and 0.01 mm. The grains are mainly of quartz with a few organic particles, and the whole rock is stained with limonite.

66-299. Flagstaff Gully managed wealth seemed moldenant acids and ho

Siltstone of more even grain that Specimen 66-244, but containing occasional larger grains up to 0.5 mm. This rock also contains a larger proportion of very fine-grained micaceous material.

Steak man the wine workings, and which can in tollowed along the strike for stylesst one kilometre, doing is poor and electral details are unsertished, but it is project that the two units represent the same folded bootion. An irregular, but in places strang, ironatone (gomen) has developed on the pensity mudulone, and this feature initiated prospecting in the stem. Although the presence of minor assumbs of native copper, chalcopylite system, stderike and secondary maleghines was opertain in derly publications, no equiphides were observed during the present aurvey. However, harite is relatively comen throughout the area, present as small vains and as larger irregular masses.

ZNIST TABLETREEVELT - JULY VYSETT

A number of rejoins refer specifically to the mine area. Thurses (1882 visited the workings noon after operations had commenced. He described the heat coding as black state and schint and observed that the goranne at the Sarface waterassociated with havite had quarts weins. In addition to mearous costions, the principles at that these consisted of a horizontal aditionary of a important in a north-wasterly direction from creek level, and two shall north-wasterly crossours.

Publications (1905, 1916) examined the workings in detail and described